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 June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

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 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

Keywords: B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

3 [Ext3cow: a time-shifting file system for regulatory compliance](#)

Zachary Peterson, Randal Burns

 May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2

 Full text available: [pdf\(443.01 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The ext3cow file system, built on the popular ext3 file system, provides an open-source file versioning and snapshot platform for compliance with the versioning and auditability requirements of recent electronic record retention legislation. Ext3cow provides a *time-shifting* interface that permits a real-time and continuous view of data in the past. Time-shifting does not pollute the file system namespace nor require snapshots to be mounted as a separate file system. Further, ext3cow is i ...

Keywords: Versioning file systems, copy-on-write

4 Fast and secure distributed read-only file system

Kevin Fu, M. Frans Kaashoek, David Mazières

February 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 1

Full text available:  [pdf\(317.54 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Internet users increasingly rely on publicly available data for everything from software installation to investment decisions. Unfortunately, the vast majority of public content on the Internet comes with no integrity or authenticity guarantees. This paper presents the self-certifying read-only file system, a content distribution system providing secure, scalable access to public, read-only data. The read-only file system makes the security of published content independent from that of the distri ...

Keywords: File systems, read-only, security

5 Deciding when to forget in the Elephant file system

Douglas S. Santry, Michael J. Feeley, Norman C. Hutchinson, Alistair C. Veitch, Ross W. Carton, Jacob Ofir

December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles**, Volume 33 Issue 5


Full text available:  [pdf\(1.61 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Modern file systems associate the deletion of a file with the immediate release of storage, and file writes with the irrevocable change of file contents. We argue that this behavior is a relic of the past, when disk storage was a scarce resource. Today, large cheap disks make it possible for the file system to protect valuable data from accidental delete or overwrite. This paper describes the design, implementation, and performance of the Elephant file system, which automatically retains all impo ...

6 The evolution of Coda

M. Satyanarayanan

May 2002 **ACM Transactions on Computer Systems (TOCS)**, Volume 20 Issue 2

Full text available:  [pdf\(441.35 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Failure-resilient, scalable, and secure read-write access to shared information by mobile and static users over wireless and wired networks is a fundamental computing challenge. In this article, we describe how the Coda file system has evolved to meet this challenge through the development of mechanisms for server replication, disconnected operation, adaptive use of weak connectivity, isolation-only transactions, translucent caching, and opportunistic exploitation of hardware surrogates. For eac ...

Keywords: Adaptation, Linux, UNIX, Windows, caching, conflict resolution, continuous data access, data staging, disaster recovery, disconnected operation, failure, high availability, hoarding, intermittent networks, isolation-only transactions, low-bandwidth networks,

mobile computing, optimistic replica control, server replication, translucent cache management, weakly connected operation

7 Algorithms and data structures for flash memories

Eran Gal, Sivan Toledo

June 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 2

Full text available:  [pdf\(343.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Flash memory is a type of electrically-erasable programmable read-only memory (EEPROM). Because flash memories are nonvolatile and relatively dense, they are now used to store files and other persistent objects in handheld computers, mobile phones, digital cameras, portable music players, and many other computer systems in which magnetic disks are inappropriate. Flash, like earlier EEPROM devices, suffers from two limitations. First, bits can only be cleared by erasing a large block of memory. S ...

Keywords: EEPROM memory, Flash memory, wear leveling

8 Improving storage system availability with D-GRAID

Muthian Sivathanu, Vijayan Prabhakaran, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau

May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2

Full text available:  [pdf\(700.30 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


We present the design, implementation, and evaluation of D-GRAID, a gracefully degrading and quickly recovering RAID storage array. D-GRAID ensures that most files within the file system remain available even when an unexpectedly high number of faults occur. D-GRAID achieves high availability through aggressive replication of semantically critical data, and fault-isolated placement of logically related data. D-GRAID also recovers from failures quickly, restoring only live file system data to a h ...

Keywords: Block-based storage, Disk array, RAID, fault isolation, file systems, smart disks

9 The Grid File: An Adaptable, Symmetric Multikey File Structure

J. Nievergelt, Hans Hinterberger, Kenneth C. Sevcik

March 1984 **ACM Transactions on Database Systems (TODS)**, Volume 9 Issue 1

Full text available:  [pdf\(2.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Traditional file structures that provide multikey access to records, for example, inverted files, are extensions of file structures originally designed for single-key access. They manifest various deficiencies in particular for multikey access to highly dynamic files. We study the dynamic aspects of file structures that treat all keys symmetrically, that is, file structures which avoid the distinction between primary and secondary keys. We start from a bitmap approach and treat the problem ...

10 Hancock: A language for analyzing transactional data streams

Corinna Cortes, Kathleen Fisher, Daryl Pregibon, Anne Rogers, Frederick Smith

March 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 26 Issue 2

Full text available:  [pdf\(217.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Massive transaction streams present a number of opportunities for data mining techniques. The transactions in such streams might represent calls on a telephone network, commercial credit card purchases, stock market trades, or HTTP requests to a web server. While

historically such data have been collected for billing or security purposes, they are now being used to discover how the transactors, for example, credit-card numbers or IP addresses, use the associated services. Over the past 5 years, w ...

Keywords: Domain-specific languages, data mining, statistical models

11 The Quadtree and Related Hierarchical Data Structures

Hanan Samet

June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2

Full text available:  [pdf\(4.87 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Systems and applications: A hybrid approach to optimistic file system directory tree synchronization

Tancred Lindholm, Jaakko Kangasharju, Sasu Tarkoma

June 2005 **Proceedings of the 4th ACM international workshop on Data engineering for wireless and mobile access**

Full text available:  [pdf\(220.29 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


There are two main approaches to optimistic file system synchronization: distributed file systems and file synchronizers. The former type is characterized by a log-based approach that depends on access to file system internals, the latter by a state-based approach that utilizes the standard file system interface, which limits the efficiency of change detection. We propose a hybrid approach that 1) defines a minor extension to the semantics of the file system interface that enables efficient state ...

Keywords: XML, directory tree, optimistic synchronization, reconciliation, stackable file system, state-based

13 OceanStore: an architecture for global-scale persistent storage

John Kubiawicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishna Gummadi, Sean Rhea, Hakim Weatherspoon, Chris Wells, Ben Zhao

November 2000 **Proceedings of the ninth international conference on Architectural support for programming languages and operating systems**, Volume 28 , 34 Issue 5 , 5

Full text available:  [pdf\(166.53 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks; monitoring also enhances performance through pro-active movement ...

14 The string B-tree: a new data structure for string search in external memory and its applications

Paolo Ferragina, Roberto Grossi

March 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 2

Full text available:  [pdf\(363.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We introduce a new text-indexing data structure, the String B-Tree, that can be seen as a link between some traditional external-memory and string-matching data structures. In a


short phrase, it is a combination of B-trees and Patricia tries for internal-node indices that is made more effective by adding extra pointers to speed up search and update operations. Consequently, the String B-Tree overcomes the theoretical limitations of inverted files, B-trees, prefix B-trees, s ...

Keywords: B-tree, Patricia trie, external-memory data structure, prefix and range search, string searching and sorting, suffix array, suffix tree, text index

15 Some experiments in directory organization - a simulation study

Allen Reiter

March 1976 **Proceedings of the 1976 ACM SIGMETRICS conference on Computer performance modeling measurement and evaluation**

Full text available:  [pdf\(707.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Using a simulation model, experiments were conducted on various directory organization schemes and their performance implications. In particular we tested the effects of a multiprogrammed environment on system throughput for retrieval operations. Analysis of the results shows that different factors are relevant to performance for the various systems, and that under some circumstances ISAM and hash-coding may lose the advantages they possess over B-trees in a stand-alone environment when mul ...

Keywords: B-tree, Directories, Hash-coding, Index sequential, Performance analysis, Throughput prediction

16 OceanStore: an architecture for global-scale persistent storage

John Kubiatowicz, David Bindel, Yan Chen, Steven Czerwinski, Patrick Eaton, Dennis Geels, Ramakrishan Gummadi, Sean Rhea, Hakim Weatherspoon, Westley Weimer, Chris Wells, Ben Zhao

November 2000 **ACM SIGPLAN Notices**, Volume 35 Issue 11

Full text available:  [pdf\(1.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

OceanStore is a utility infrastructure designed to span the globe and provide continuous access to persistent information. Since this infrastructure is comprised of untrusted servers, data is protected through redundancy and cryptographic techniques. To improve performance, data is allowed to be cached anywhere, anytime. Additionally, monitoring of usage patterns allows adaptation to regional outages and denial of service attacks; monitoring also enhances performance through pro-active movement ...

17 SaveMe: a system for archiving electronic documents using messaging groupware

Stefan Berchtold, Alexandros Biliris, Euthimios Panagos

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration**, Volume 24 Issue 2


Full text available:  [pdf\(1.47 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today, organizations deal with an ever-increasing number of documents that have to be archived because they are either related to their core business (e.g., product designs) or needed to meet corporate or legal retention requirements (e.g., voucher). In this paper, we present the architecture and prototype implementation of SaveMe, a document archival system that is based on network-centric groupware such as Internet standards-based messaging systems. In SaveMe, the actions of archiving, retrieval ...

Keywords: Internet, archiving, groupware, messaging

18 Improving the granularity of access control for Windows 2000

Michael M. Swift, Anne Hopkins, Peter Brundrett, Cliff Van Dyke, Praerit Garg, Shannon Chan, Mario Goertzel, Gregory Jensenworth
November 2002 **ACM Transactions on Information and System Security (TISSEC)**, Volume 5 Issue 4

Full text available:  [pdf\(447.78 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

This article presents the mechanisms in Windows 2000 that enable fine-grained and centrally managed access control for both operating system components and applications. These features were added during the transition from Windows NT 4.0 to support the Active Directory, a new feature in Windows 2000, and to protect computers connected to the Internet. While the access control mechanisms in Windows NT are suitable for file systems and applications with simple requirements, they fall short of the ...

Keywords: Access control lists, Microsoft Windows 2000, Windows NT, active directory

19 Memory management during run generation in external sorting

Per-Åke Larson, Goetz Graefe
June 1998 **ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Full text available:  [pdf\(2.08 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

If replacement selection is used in an external mergesort to generate initial runs, individual records are deleted and inserted in the sort operation's workspace. Variable-length records introduce the need for possibly complex memory management and extra copying of records. As a result, few systems employ replacement selection, even though it produces longer runs than commonly used algorithms. We experimentally compared several algorithms and variants for managing this workspace. We found t ...

Keywords: last-run optimization, memory management, merge sort, replacement selection, run formation, sorting, variable length records

20 Embedded systems: applications, solutions and techniques (EMBS): An efficient management scheme for large-scale flash-memory storage systems

Li-Pin Chang, Tei-Wei Kuo
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available:  [pdf\(299.99 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Flash memory is among the top choices for storage media in ubiquitous computing. With a strong demand of high-capacity storage devices, the usages of flash memory quickly grow beyond their original designs. The very distinct characteristics of flash memory introduce serious challenges to engineers in resolving the quick degradation of system performance and the huge demand of main-memory space for flash-memory management when high-capacity flash memory is considered. Although some brute-force so ...

Keywords: consumer electronics, embedded systems, flash memory, memory management, portable devices, storage systems

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1 [Managing role/permission relationships using object access types](#)

John Barkley, Anthony Cincotta

October 1998 **Proceedings of the third ACM workshop on Role-based access control**

Full text available: pdf(4.62 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

2 [Capturing dynamic memory reference behavior with adaptive cache topology](#)

Jih-Kwon Peir, Yongjoon Lee, Windsor W. Hsu

October 1998 **Proceedings of the eighth international conference on Architectural support for programming languages and operating systems**, Volume 33 , 32 Issue 11 , 5

Full text available: pdf(1.50 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Memory references exhibit locality and are therefore not uniformly distributed across the sets of a cache. This skew reduces the effectiveness of a cache because it results in the caching of a considerable number of less-recently-used lines which are less likely to be re-referenced before they are replaced. In this paper, we describe a technique that dynamically identifies these less-recently-used lines and effectively utilizes the cache frames they occupy to more accurately approximate the glob ...

3 [History-based access control for mobile code](#)

Guy Edjlali, Anurag Acharya, Vipin Chaudhary

November 1998 **Proceedings of the 5th ACM conference on Computer and communications security**

Full text available: pdf(1.33 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

4 [Document archiving, replication and migration container for mobile Web users](#)

Peter Stanski, Stephen Giles, Arkady Zaslavsky

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**

Full text available: pdf(809.84 KB)

Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** archiving, file-system, mobility, replication, server

5 A user interface using fingerprint recognition: holding commands and data objects on fingers

Atsushi Sugiura, Yoshiyuki Koseki

November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology**

Full text available:  [pdf\(226.02 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: fingerprint recognition, input devices, multimodal user interfaces, multi-computer user interfaces

6 Session directories and scalable Internet multicast address allocation

Mark Handley

October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 28 Issue 4

Full text available:  [pdf\(1.63 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A multicast session directory is a mechanism by which users can discover the existence of multicast sessions. In the Mbone, session announcements have also served as multicast address reservations - a dual purpose that is efficient, but which may cause some side-effects as session directories scale. In this paper we examine the scaling of multicast address allocation when it is performed by such a multicast session directory. Despite our best efforts to make such an approach scale, this analysis ...

7 Productivity tools for web-based information

Robin Green

September 1998 **Proceedings of the 16th annual international conference on Computer documentation**

Full text available:  [pdf\(836.75 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 The turn model for adaptive routing

Christopher J. Glass, Lionel M. Ni


August 1998 **25 years of the international symposia on Computer architecture (selected papers)**

Full text available:  [pdf\(1.08 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Undeniable billing in mobile communication

Jianying Zhou, Kwok-Yan Lam

October 1998 **Proceedings of the 4th annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  [pdf\(864.03 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: cryptographic protocol, mobile communication security, non-repudiation, undeniable billing

10 File hoarding under NFS and Linux

Dorota M. Huizinga, Heather Sherman

February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**Full text available:  [pdf\(701.27 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)**Keywords:** disconnected operation, file caching, file systems**11** Public-key cryptography and password protocols


Shai Halevi, Hugo Krawczyk

November 1998 **Proceedings of the 5th ACM conference on Computer and communications security**Full text available:  [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**12** On the inclusion properties for multi-level cache hierarchies

Jean-Loup Baer, Wen-Hann Wang

August 1998 **25 years of the international symposia on Computer architecture (selected papers)**Full text available:  [pdf\(876.77 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**13** On-line journal: a tool for enhancing student journals

Robert Riser, Donald Gotterbarn

August 1998 **ACM SIGCSE Bulletin , Proceedings of the 6th annual conference on the teaching of computing and the 3rd annual conference on Integrating technology into computer science education: Changing the delivery of computer science education**, Volume 30 Issue 3Full text available:  [pdf\(392.08 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses the development of a web-based on-line journal to replace a traditional project journal in a writing intensive undergraduate software engineering course. The on-line journal allows students to conveniently maintain their project journals while allowing the instructor to more effectively review student journals and provide timely feedback.

Keywords: journal, software engineering**14** Scalable data naming for application level framing in reliable multicast


Suchitra Raman, Steven McCanne

September 1998 **Proceedings of the sixth ACM international conference on Multimedia**Full text available:  [pdf\(1.30 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**15** Filing system interfaces to support distributed multimedia applications

Stephen Childs

September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**

Full text available: Additional Information:

 [pdf\(754.41 KB\)](#)[full citation](#), [index terms](#)**16 Multilingual keyword extraction for term suggestion**

Yuen-Hsien Tseng

August 1998 **Proceedings of the 21st annual international ACM SIGIR conference on Research and development in information retrieval**Full text available:  [pdf\(281.14 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**17 A security architecture for computational grids**

Ian Foster, Carl Kesselman, Gene Tsudik, Steven Tuecke

November 1998 **Proceedings of the 5th ACM conference on Computer and communications security**Full text available:  [pdf\(1.23 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**18 Integrating technology into computer science examinations**

David V. Mason, Denise M. Woit

March 1998 **ACM SIGCSE Bulletin , Proceedings of the twenty-ninth SIGCSE technical symposium on Computer science education**, Volume 30 Issue 1Full text available:  [pdf\(730.92 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


On-line programming tests and examinations were administered to approximately 120 first year computer science students in order to evaluate their practical skills. We describe our motivation for on-line testing, outline the technical details of our closed testing environment, and present our observations about student performance. We also compare the effectiveness of on-line tests versus conventional tests, report the problems we encountered and our solutions, relate student opinion regarding th ...

19 Hardware and software support for speculative execution of sequential binaries on a chip-multiprocessor

Venkata Krishnan, Josep Torrellas

July 1998 **Proceedings of the 12th international conference on Supercomputing**Full text available:  [pdf\(1.17 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**20 Referential integrity of links in open hypermedia systems**

Hugh C. Davis

May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**Full text available:  [pdf\(1.30 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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1 [The MASC/BGMP architecture for inter-domain multicast routing](#)

Satish Kumar, Pavlin Radoslavov, David Thaler, Cengiz Alaettinoğlu, Deborah Estrin, Mark Handley

 October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 28 Issue 4

 Full text available: [pdf\(1.79 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Multicast routing enables efficient data distribution to multiple recipients. However, existing work has concentrated on extending single-domain techniques to wide-area networks, rather than providing mechanisms to realize inter-domain multicast on a global scale in the Internet. We describe an architecture for inter-domain multicast routing that consists of two complementary protocols. The Multicast Address-Set Claim (MASC) protocol forms the basis for a hierarchical address allocation architect ...

2 [Session directories and scalable Internet multicast address allocation](#)

Mark Handley

 October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 28 Issue 4

 Full text available: [pdf\(1.63 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

A multicast session directory is a mechanism by which users can discover the existence of multicast sessions. In the Mbone, session announcements have also served as multicast address reservations - a dual purpose that is efficient, but which may cause some side-effects as session directories scale. In this paper we examine the scaling of multicast address allocation when it is performed by such a multicast session directory. Despite our best efforts to make such an approach scale, this analysis ...







3 [The HIP protocol for hierarchical multicast routing](#)

Clay Shields, J. J. Garcia-Luna-Aceves

 June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing**

 Full text available: [pdf\(1.63 MB\)](#)

 Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 4 Automated generation of hypertextual course material from plaintext
Damian Conway, Linda McIver
July 1998 **Proceedings of the 3rd Australasian conference on Computer science education ACSE '98**
Full text available:  pdf(993.61 KB) Additional Information: [full citation](#), [references](#), [index terms](#)
- 5 Scalable data naming for application level framing in reliable multicast
Suchitra Raman, Steven McCanne
September 1998 **Proceedings of the sixth ACM international conference on Multimedia**
Full text available:  pdf(1.30 MB) Additional Information: [full citation](#), [references](#), [citing](#)s, [index terms](#)
- 6 Cut as a querying unit for WWW, Netnews, e-mail
Keishi Tajima, Yoshiaki Mizuuchi, Masatsugu Kitagawa, Katsumi Tanaka
May 1998 **Proceedings of the ninth ACM conference on Hypertext and hypermedia : links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems**
Full text available:  pdf(1.23 MB) Additional Information: [full citation](#), [references](#), [citing](#)s, [index terms](#)
- 7 Finding and visualizing inter-site clan graphs
Loren Terveen, Will Hill
January 1998 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Full text available:  pdf(1.16 MB) Additional Information: [full citation](#), [references](#), [citing](#)s, [index terms](#)
- Keywords:** co-citation analysis, collaborative filtering, computer supported cooperative work, human-computer interaction, information access, information retrieval, information visualization, social filtering, social network analysis
- 8 Escaping the evils of centralized control with self-certifying pathnames
David Mazières, M. Frans Kaashoek
September 1998 **Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications**
Full text available:  pdf(671.29 KB) Additional Information: [full citation](#), [citing](#)s, [index terms](#)
- 9 SONIA: a service for organizing networked information autonomously
Mehran Sahami, Salim Yusufali, Michelle Q. W. Baldonado
May 1998 **Proceedings of the third ACM conference on Digital libraries**
Full text available:  pdf(1.29 MB) Additional Information: [full citation](#), [references](#), [citing](#)s, [index terms](#)
- 10 Technologies for repository interoperation and access control
Shirley Browne, Jack Dongarra, Jeff Horner, Paul McMahan, Scott Wells
May 1998 **Proceedings of the third ACM conference on Digital libraries**

Full text available:  [pdf\(1.14 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

11 The performance of a service for network-aware applications

Katia Obraczka, Grig Gheorghiu

August 1998 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Full text available:  [pdf\(984.29 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

12 Actor-based computing: vision forestalled, vision fulfilled

Arthur Allen

May 1998 **Proceedings of the second international conference on Autonomous agents**

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Dan R. Olsen, Daniel Boyarski, Thom Verratti, Matthew Phelps, Jack L. Moffett, Edson L. Lo

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Trent Jaeger, Jochen Liedtke, Vsevolod Panteleenko, Yoonho Park, Nayeem Islam

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15 Measurement of a scientific workload using the IBM hardware performance monitor

Robert J. Bergeron

November 1998 **Proceedings of the 1998 ACM/IEEE conference on Supercomputing (CDROM)**

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This paper presents data on the performance of the NAS SP2 IBM system using RS6000 hardware monitors and a performance measurement tool. The data collected showed that the SP2 averages about 1.3 Gflops, about 3% of peak. The report provides the relative usage for the various hardware units over the entire workload measured over a 9-month period. The workload displays moderate parallelism, with the most popular choice of nodes as 16. Although the monitor data provide a good snapshot of workload p ...

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George Varghese

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Algorithmic problems in Internet research

George Varghese

June 1998 **Proceedings of the seventeenth annual ACM symposium on Principles of distributed computing**

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18 A look at several memory management units, TLB-refill mechanisms, and page table organizations

Bruce L. Jacob, Trevor N. Mudge

October 1998 **Proceedings of the eighth international conference on Architectural support for programming languages and operating systems**, Volume 32 , 33
Issue 5 , 11

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Virtual memory is a staple in modern systems, though there is little agreement on how its functionality is to be implemented on either the hardware or software side of the interface. The myriad of design choices and incompatible hardware mechanisms suggests potential performance problems, especially since increasing numbers of systems (even embedded systems) are using memory management. A comparative study of the implementation choices in virtual memory should therefore aid system-level designers ...



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Tsai-Yen Li, Jin-Shin Chen

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Keywords: collision detection, hierarchical bounding volumes, incremental algorithm, shape approximation



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Han-Wei Shen

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Keywords: isosurface extraction, marching cubes, scalar field visualization, span space, time-varying fields, volume visualization



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